

## Title (en)

Composition for oxidative dyeing of keratinous fibres and dyeing process using same

## Title (de)

Oxidationsfärbemittel für keratinische Fasern und Färbungsverfahren mit diesem Mittel

## Title (fr)

Composition de teinture d'oxydation des fibres kératiniques et procédé de teinture mettant en oeuvre cette composition

## Publication

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## Application

**EP 01400746 A 20010322**

## Priority

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## Abstract (en)

Combination of pyridine-type colorant with enzymatic oxidizing agent. The composition comprises at least one oxidation-colorant selected from pyridines of formula (I) (and their acid-addition salts); R1 = 1-4C alkyl or monohydroxyalkyl, 2-4C polyhydroxyalkyl; R2 = 1-4C alkoxy or monohydroxy alkoxy, 2-4C polyhydroxyalkoxy, amino, mono- or di- 1-4C alkyl amino, monophenylamino, monohydroxy phenylamino, monoalkoxy phenylamino, mono- or di- hydroxy 1-4C alkyl amino, mono- or di- polyhydroxy 2-4C alkyl amino, 1-4C alkyl- monohydroxy- 1-4C alkyl amino, or 1-4C alkyl- polyhydroxy- 2-4C alkyl amino radical; R3 = H, or amino, mono 1-4C alkyl amino, monohydroxy 1-4C alkyl amino, or polyhydroxy 2-4C alkyl amino radical. (Full definitions given in DEFINITIONS (Full Definitions) field); and at least one oxidizing agent of enzymatic type selected from: (a) system comprising oxido-reductases with 2 electrons and at least one donor for such oxido-reductases; (b) oxido-reductases with 4 electrons; and (c) peroxidases. Composition also includes at least one oxidation base selected from paraphenylene diamines, double bases, para-aminophenols, ortho-aminophenols and heterocyclic oxidation bases, and at least one coupler. The composition contains 0.0001-10 (preferably 0.005-5) wt.% of pyridines (I); 0.0005-12 wt.% of oxidation bases; 0.01-20 wt.% of oxido-reductases with 2 electrons and 0.01-20 wt.% of their donors, or 0.01-20 wt.% of oxido-reductases with 4 electrons, or 0.0001-20 wt.% of peroxidases; and 0.0001-10 wt.% of coupler(s). Independent claims are also included for: (1) process of oxidation-dyeing of keratin fibers, especially hair, by application of at least one composition as claimed for time necessary to develop desired color; (2) kit for oxidation-dyeing, having one compartment containing composition A comprising at least one colorant (I) as claimed, and compartment B, comprising at least one oxidizing agent of enzymatic type as claimed; and (3) process of oxidation-dyeing of keratinic fibers, especially hair, comprising mixing composition A with composition B as claimed, and application of obtained mixture onto hair.

## Abstract (fr)

L'invention a pour objet une composition prête à l'emploi pour la teinture d'oxydation des fibres kératiniques, et en particulier des fibres kératiniques humaines telles que les cheveux comprenant, dans un milieu approprié pour la teinture, au moins un colorant d'oxydation choisi parmi des pyridines de formule (I), et au moins un agent oxydant de nature enzymatique, ainsi que le procédé de teinture mettant en oeuvre cette composition.  
<IMAGE>

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